

MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	SSS ROYAL TOUCH POWDER IRON REMOVING SOUR		
PRODUCT CODE	17023	MANUFACTURED FOR	Triple S
ISSUE DATE	08/14/00	STREET ADDRESS	2 Executive Park Drive
SUPERCEDES	01/16/91	CITY, STATE ZIP	Billerica, MA 01862
		PHONE	(978) 667 7900

EMERGENCY TELEPHONE NUMBER
1-800-535-5053

SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS No.	OSHA PEL/TLV	EXPOSURE LIMITS		OTHER LIMITS
			ACGIH TLV	STEL	
Sodium Silicofluoride	16893-85-9	2.5 mg/m3	N/A	N/A	N/A
Oxalic Acid	144-62-7	N/A	N/A	N/A	N/A

SECTION 3 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW	Causes eye and skin irritation Harmful if swallowed Harmful if inhalation if inhalation exposure limits are exceeded
---------------------------	--

POTENTIAL HEALTH EFFECTS	
INGESTION	Severe irritation and burning
INHALATION	Severe irritation and burning
EYE CONTACT	Severe irritation and burning
SKIN CONTACT	Severe irritation and burning

SECTION 4 – FIRST AID MEASURES

INGESTION	Drink large quantity of soapy water. Induce vomiting by sticking finger down throat. Keep head lower than trunk. Drink lime water.
INHALATION	In any nose or throat irritation occurs leave area immediately and do not return until dust is settled. IF OVERCOME REMOVE VICTIM FROM AREA AND START ARTIFICIAL RESPIRATION AT ONCE. Call a doctor immediately.
EYE CONTACT	Flush with water for 15 minutes while holding lids apart. See a doctor immediately.
SKIN CONTACT	Flush skin with water for 15 minutes. Follow by neutralization with milk of magnesia. See a doctor immediately.
NOTE TO PHYSICIAN	Treatment based on judgment of the physician in response to reactions of the patient.

SECTION 5 – FIRE FIGHTING MEASURES

FLASH POINT / METHOD	N/A	FLAMMABLE LIMITS	N/A
% VOLATILE	N/A		
EXTINGUISHING MEDIA	Water mist, alcohol foam, CO2, dry chemical		

SPECIAL FIRE FIGHTING PROCEDURES	Firefighters should wear a self-contained breathing apparatus as in all chemical fires.
FIRE AND EXPLOSION HAZARDS	Concentrated solution react with aluminum, zinc to produce hydrogen which forms explosive mixtures in air.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

RESPONSE TO SPILLS	Stop leak, cover material spilled with lime water and lime to greater pH than 16.
--------------------	---

SECTION 7 – HANDLING AND STORAGE

HANDLING PRECAUTIONS	Wash hands before eating. Keep container tightly closed when not in use.
STORAGE PRECAUTIONS	Store in a cool dry place

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTIONS

HYGIENIC PRACTICES	Normal procedures for good hygiene. Observe label precautions. Use personal protection equipment.
ENGINEERING CONTROLS	Good general ventilation should be sufficient to control airborne levels Eyewash station is recommended.

	RESPIRATOR	Required when TLV's are exceeded.
X	GOGGLES / FACE SHIELD	Required: goggles should be chemical splash type
X	APRON	Required
X	GLOVES	Required: PVC, Neoprene or Nitrile acceptable
	BOOTS	Not required

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	White powder	BOILING POINT	N/a
ODOR	None	VAPOR PRESSURE	N/a
pH 1%	2.3	VAPOR DENSITY	N/A
SPECIFIC GRAVITY	1.25	EVAPORATION RATE (butyl acetate=1)	N/A
SOLUBILITY IN WATER	N/A		

SECTION 10 – STABILITY AND REACTIVITY

CHEMICAL STABILITY		STABLE	X		UNSTABLE	
CONDITIONS TO AVOID	Temperatures above 150 deg C					
INCOMPATIBILITY	Silver and silver compounds, oxidizing agents, aluminum, silver					
HAZARDOUS PRODUCTS OF DECOMPOSITION	Hydrofluoric acid, silicon tetrafluoride, formic acid, carbon monoxide..					
POLYMERIZATION		WILL NOT OCCUR	X		MAY OCCUR	
CONDITIONS TO AVOID						

SECTION 11 – TOXICOLOGICAL INFORMATION

CARCINOGENICITY

	THIS PRODUCT CONTAINS A KNOWN OR SUSPECTED CARCINOGEN
X	THIS PRODUCT DOES NOT CONTAIN ANY KNOWN OR ANTICIPATED CARCINOGENS ACCORDING TO

THE CRITERIA OF THE NTP ANNUAL REPORT ON CARCINOGENS AND OSHA 29 CFR 1910,Z

OTHER EFFECTS

ACUTE	Burns to skin and mucous membranes
CHRONIC	Not known
ORAL LD/50	125 mg/m3

SECTION 12 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL	Neutralized products may be flushed to sewer.
----------------	---

SECTION 13 – TRANSPORT INFORMATION

DOT CLASSIFICATION		HAZARDOUS	X		NOT HAZARDOUS	
DESCRIPTION	Corrosive					
SEATEX HM CODE	200					

SECTION 14 – OTHER INFORMATION

HMIS CLASSIFICATION

2	BLUE	HEALTH HAZARD
0	RED	FLAMMABILITY
1	YELLOW	REACTIVITY
Acid	WHITE	SPECIAL HAZARD

Information contained in this MSDS refers only to the specific material designated and does not relate to any process or use involving other materials. This information is based on data believed to be reliable, and the Product is intended to be used in a manner that is customary and reasonably foreseeable. Since actual use and handling are beyond our control, no warranty, express or implied, is made and no liability is assumed by Triple S in connection with the use of this information.